

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

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1. (Currently Amended) A process for preparing an aqueous dispersion of plastics additive polymer particles, comprising the steps of:
emulsion polymerizing one or more ethylenically unsaturated monomers in an aqueous medium in the presence of a free radical redox initiator system, wherein the free radical redox initiator system comprises an oxidizing agent, a reducing agent, and from 0.01 to 5.00 ppm, based on monomer weight, total of a mixture of iron and copper metal ion species.
- B1 2. (Original) The process according to claim 1 wherein the ethylenically unsaturated monomers are polymerized to achieve a polymer molecular weight in the range of from 0.2 to 15 million g/mol.
3. (Original) The process according to claim 1 wherein the aqueous medium has a dissolved oxygen concentration in the range of from more than 0 ppm to 10 ppm as measured relative to the dissolved oxygen concentration in a 0.5 wt. % sodium bisulfite aqueous solution at 20°C under atmospheric pressure.
4. (Original) The process according to claim 1 further comprising the steps of subsequently adding one or more additional monomer mixtures comprising one or more ethylenically unsaturated monomers, and polymerizing the one or more additional monomer mixtures using one or more free radical initiator systems.
5. (Currently Amended) A polymeric composition for use in modifying the properties of thermoplastic resins, the composition comprising polymer particles

prepared by emulsion polymerizing one or more ethylenically unsaturated monomers in an aqueous medium in the presence of a free radical redox initiator system, wherein the free radical redox initiator system comprises an oxidizing agent, a reducing agent, and from 0.01 to 5.00 ppm, based on monomer weight, ~~total~~ of a mixture of iron and copper metal ion species.

B1 6. (Original) The composition according to claim 5, wherein the one or more ethylenically unsaturated monomers comprise from 55 to 97 weight percent methyl methacrylate, from 3 to 20 weight percent of n-butyl acrylate, and from 0 to 25 weight percent n-butyl methacrylate; and the polymer particles have a polymer molecular weight in the range of from 1 to 15 million.

7. (Original) The composition according to claim 6, wherein the polymer molecular weight is greater than 6.5 million

8. (Original) The composition according to claim 5, wherein the polymer particles each comprise a rubbery core domain and a hard shell domain surrounding said rubbery core domain.

Claims 9-11 (Withdrawn).
